

I claim:

1        1.    A method for recording high definition video images  
2 in real time comprising the steps of:  
3        acquiring a high definition video image in a first data  
4 format;  
5        compiling the high definition video image in a second data  
6 format; and  
7        writing the high definition video image as a stripped data  
8 file.

1        2.    The method of claim 1 wherein acquiring a high  
2 definition video image in a first data format comprises:  
3        acquiring a high definition video image in a YcbCr format.

1        3.    The method of claim 1 wherein compiling the high  
2 definition video image in a second data format comprises:  
3        compiling the high definition video image in an RGB  
4 format.

1        4.    The method of claim 1 wherein compiling the high  
2 definition video image in a second data format further  
3 comprises:  
4        compiling the high definition video image in the first  
5 data format;  
6        translating the high definition video image in the first  
7 data format to a high definition video image in the second data  
8 format;  
9        filtering the high definition video image to eliminate  
10 translation artifacts;  
11        correcting the high definition video image; and  
12        packing the high definition video image in a second data  
13 format packing mode.

1        5.    The method of claim 4 wherein compiling the high  
2 definition video image in a first data format comprises:  
3        compiling the high definition video image in a YcbCr  
4 format.

1        6.    The method of claim 4 wherein translating the high  
2 definition video image in the first data format to a high  
3 definition video image in the second data format comprises:  
4        translating the high definition video image in YcbCr  
5 format to a high definition video image in RGB format.

1        7.    The method of claim 4 wherein packing the high  
2 definition video image in a second data format packing mode  
3 comprises:  
4        packing the high definition video image in RGB12 format.

1        8.    The method of claim 4 wherein translating the high  
2 definition video image in YcbCr format to a high definition  
3 video image in RGB format comprises:  
4        using SMPTE 274M or ITU-BT Rec.709 or ITU-BT Rec.601 to  
5 translate the high definition video image from YcbCr format to  
6 a high definition video image in RGB format.

1        9.    An apparatus recording high-density video images in  
2 real time comprising:  
3        means for compiling a high definition video image in a  
4 first data format;  
5        means for translating the high definition video image in  
6 the first data format to a high definition video image in a  
7 second data format;  
8        means for filtering the second format high definition  
9 video image to eliminate translation artifacts;

10 means for correcting the second format high definition  
11 video image;  
12 means for packing the second format high definition video  
13 image in a second data format packing mode  
14 means for writing the packed high definition video image  
15 as a stripped data file;  
16 means for reading the stripped data file and compiling the  
17 high definition video image in the second data format; and  
18 means for providing the high definition video image in the  
19 second data format to a network.

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